From: Kenny Blake
To: Rodriguez, Jose
Cc: Baker, JohnE; Ngo, Kim
Subject: RE: Well 1 Remaining Deficiency - Vent
Date: Tuesday, September 05, 2017 12:23:58 PM

Thanks - I will show the schematic to Well Vendors and submit a plan for scheduled installation - kb

-----Original Message-----
From: Rodriguez, Jose [mailto:Rodriguez.Jose@epa.gov]
Sent: Tuesday, September 05, 2017 10:40 AM
To: Kenny Blake
Cc: Ngo, Kim; Baker, JohnE; Bresnahan, Meaghan
Subject: RE: Well 1 Remaining Deficiency - Vent

Kenny,

Below are the New Mexico Environment Department regulations for well construction, in particular the portion require well casing vents. If you are contacting well drillers in New Mexico they should be familiar with this requirement.

NEW MEXICO ENVIRONMENT DEPARTMENT - Construction Programs Bureau

Recommended Standards for Water Facilities Policies for the design, review, and approval of plans and specifications for water supply systems and treatment works

2006 Edition

Part 3 - Source Development - 3.2 Groundwater

3.2.7.5 Casing Vent
Provisions should be made for venting the well casing to the atmosphere. The vent should terminate in a downturned position, at or above the top of the casing or pitless unit in a minimum 1½ inch diameter opening covered with a 24 mesh, corrosion resistant screen. The pipe connecting the casing to the vent should be of adequate size to provide rapid venting of the casing.

Thank you,

José G. Rodriguez
(214) 665-8087
Rodriguez.jose@epa.gov

-----Original Message-----
From: Kenny Blake [mailto:kenny@cochitigolfclub.com]
Sent: Friday, September 01, 2017 7:35 PM
To: Rodriguez, Jose <Rodriguez.Jose@epa.gov>
Subject: Re: Well 1 Remaining Deficiency - Vent

I thought it was like the air relief valve - it vented then shut not allowing water to pass through? If not neither I or any vendor I've talked to knows where it goes or what it looks like so we are back to square 1. If it can go on the sounding tube, I still do not know what it looks like or where to obtain it from. TLC, Alpha Southwest, JCH, Sierra Irrigation, Mike Alvidrez- none of these have any idea of what an air vent is or where it goes. If anyone did, it would have been installed already. Who can tell me where to get an air vent and where to plumb it in to well 1? Thanks

Kenny Blake
kenny@cochitigolfclub.com

> On Sep 1, 2017, at 5:09 PM, Rodriguez, Jose <Rodriguez.Jose@epa.gov> wrote:
>
> Yes but when the pump is running water will be pour out from the vent if you put it the raw water sample tap.
>
> The vent is intended to allow air to enter and exit the pump as it turns on and off. The sample tap is on the discharge pipe. Any air in the discharge pipe is released through the air relief valve. The needs to be in a location to vent the area between the discharge pipe and the casing. When the pump is off the water level is at the top of the water table. As the pump turns on the water table draws down and forms a cone. As it is drawing down air needs to enter the casing and as the pump shuts down the air needs to be released to allow through the vent. See the attached schematic.
>
> The well pump structure actually has an opening where a vent can be installed but it is currently being used for the drawdown tube. The attached picture a shows the location.
>
>
> I am also being deployed to assist with the Hurricane Harvey Response.
> Thank you,
>
> José G. Rodriguez
> (214) 665-8087
> Rodriguez.jose@epa.gov
>
> From: Kenny Blake [mailto:kenny@cochitigolfclub.com]
> Sent: Friday, September 01, 2017 5:21 PM
> To: Rodriguez, Jose <Rodriguez.Jose@epa.gov>
> Subject: Re: Well 1 Remaining Deficiency - Vent
>
> There is no pressure on that tap until the pump is running
>
> Kenny Blake
> kenny@cochitigolfclub.com<mailto:kenny@cochitigolfclub.com>
>
> On Sep 1, 2017, at 2:51 PM, Rodriguez, Jose <Rodriguez.Jose@epa.gov<mailto:Rodriguez.Jose@epa.gov>>
wrote:
> Kenny,
>
> Thank you for the information. The plan as described is not an appropriate place for the well vent. Because the sample tap is under pressure, this will cause water to continually flow through the vent.
>
> We had previously discussed installing the vent on the sounding tube.
>
> Thank you,
>
> José G. Rodriguez
> (214) 665-8087
> Rodriguez.jose@epa.gov<mailto:Rodriguez.jose@epa.gov>
>
> From: Kenny Blake [mailto:kenny@cochitigolfclub.com]
> Sent: Thursday, August 31, 2017 12:35 PM
> To: Bresnahan, Meaghan
> <bresnahan.meaghan@epa.gov<mailto:bresnahan.meaghan@epa.gov>>; AWO
> <awo@q.com<mailto:awo@q.com>>; Rodriguez, Jose
> <Rodriguez.Jose@epa.gov<mailto:Rodriguez.Jose@epa.gov>>
> Cc: Ngo, Kim <Ngo.Kim@epa.gov<mailto:Ngo.Kim@epa.gov>>; Baker, JohnE

> <Baker.JohnE@epa.gov<mailto:Baker.JohnE@epa.gov>>
> Subject: Well 1 Remaining Deficiency - Vent
>
> Jose: (FYI to all others) I want to resolve the remaining well 1
> deficiency as outlined in the August 18 letter. (There is no vent in
> the well casing)
>
> First, I need to know where I can buy a well vent and what it looks like to show the supply house. Once I have the vent, please see the attached picture. My intent is to place a T where the raw water sample tap is and have the raw water sample to the right and the well vent to the left.
>
> Will this be a suitable place to attach the well vent and the raw water sample trap?
>
> Thanks - We are moving forward to resolve every issue in a reasonable
> time frame - Thanks to all - kb
>
> From: Bresnahan, Meaghan [mailto:bresnahan.meaghan@epa.gov]
> Sent: Wednesday, August 30, 2017 7:02 AM
> To: Kenny Blake; AWO
> Cc: Ngo, Kim; Baker, JohnE
> Subject: Follow up
>
> Hi Kenny,
>
> To follow up from our phone call yesterday, I left a message with Mike yesterday afternoon recommending that you switch back over to Well 1 as soon as possible. Please stay on the Boil Water Advisory until 1 clean source sample and 2 clean BacT results are returned by the lab. Once those results are returned to EPA, we will confirm with you that the BWA can be lifted.
>
> Regarding the Public Notice for the August 18th "failure to complete deficiencies" letter, public notice is still required even if well 2 is disconnected. I know that causes additional headache, but this is required by the National Primary Drinking Water Regulations. Because this is a 30 day PN, it does not need to be hand delivered as long as there are other methods of getting the information to all your customers.
>
> As always, call if you have any questions.
>
> Thanks,
> Meaghan
>
>
> Meaghan Bresnahan
> Drinking Water Section
> EPA Region 6
> 1445 Ross Ave (6WQ-SD)
> Dallas, TX 75206
> (214)665-8354
>
> <Well Vent Schematic.pptx>
> <Cochiti Lakes 041515 Cochiti Lake Well exapnding foam covering draw
> down test tubing.JPG>